

$$\frac{r}{-1} = \frac{-a}{1} \Rightarrow a = r$$

سوال 111

$$1 \text{ جواب} : y = x^2 + 2x - 2 = 1 \Rightarrow x^2 + 2x - 3 = 0 \quad \begin{cases} x_1 = 1 \\ x_2 = -3 \end{cases}$$

$$2 \text{ جواب} : y = -(x-1)(x+3) + 1 = -x^2 - 2x + 4 \Rightarrow b = 2$$

$$1 \Delta x^2 + 4x + 1 < 0 \Rightarrow -\frac{1}{4} < x < -\frac{1}{4}$$

$$\frac{-V_0}{1\Delta} = \frac{1}{4} > -\frac{3}{4} < -\frac{1}{4}$$

$$\left| \frac{x-1}{r} - 1 \right| > r < \frac{x-3}{r} > r \Rightarrow x > 9$$

$$\frac{x-3}{r} < -r \Rightarrow x < -3$$

سوال 112

$$\Rightarrow \begin{cases} a \\ b \end{cases} \quad -\frac{1}{4} < x < -\frac{3}{4}$$

$$b - a = -3 + \frac{1}{4} = -\frac{11}{4}$$

$$\text{ب. 10} f \Rightarrow m = n = 0$$

$$\rightarrow f(x) = k$$

$$(m, n-1) = (0, k) \Rightarrow k = n-1 = -1$$

$$\Rightarrow f(k) = 1$$

سوال 113

$$\text{ب. 10} f \Rightarrow f(x) = x$$

$$g(x) = \frac{1}{x-a} \Rightarrow |g(x) - 2| = \left| \frac{1}{x-a} - 2 \right| = \frac{1}{|x|}$$

$$\Rightarrow x = \frac{\sqrt{c}}{r} \quad \frac{1}{\left| \frac{\sqrt{c}}{r} - a \right|} = \frac{1}{\frac{\sqrt{c}}{r}} + 2 = 2 + \sqrt{c} \Rightarrow \left| \frac{\sqrt{c}}{r} - a \right| = \frac{1}{2 + \sqrt{c}} = \frac{2 - \sqrt{c}}{r}$$

$$\left\{ \begin{array}{l} \frac{\sqrt{c}}{r} - a = 1 - \frac{\sqrt{c}}{r} \Rightarrow a = \sqrt{c} - 1 \\ \frac{\sqrt{c}}{r} - a = \frac{\sqrt{c}}{r} - 1 \Rightarrow a = 1 \end{array} \right.$$

$$\Rightarrow 1 - \sqrt{c}$$

سوال 114

$$\alpha\beta' + \alpha'\beta = \alpha\beta' \cdot \alpha'\beta \xrightarrow{\div \alpha\beta} \alpha + \beta = \alpha'\beta'$$

سوال ۱۱۵

$$\Rightarrow S = \rho' \Rightarrow \frac{-b}{a} = \left(\frac{a}{a}\right)' \Rightarrow a = \frac{-c'}{b} = \frac{-14}{-1} = 14$$

$$\left. \begin{array}{l} 1-x > 0 \\ x-1 > 0 \end{array} \right\} \Rightarrow x < 1$$

جانبی

$$\Rightarrow \sqrt{1} = \sqrt{1} - \sqrt{0} \quad X$$

جواب ندارد

سوال ۱۱۶

$$y = (\sqrt{x}-1)' \xrightarrow{x \geq 1} \sqrt{y} = \sqrt{x}-1 \Rightarrow \sqrt{x} = \sqrt{y}+1$$

سوال ۱۱۷

$$g(x) = f^{-1}(x) = (\sqrt{x}+1)'$$

$$g(g(1)) = g(2) = 9$$

$x$	-	0	+	1
$\log \frac{x}{1}$	X		+	0
$f$	X		+	0

$$\Rightarrow D_f = (0,1) \supseteq$$

سوال ۱۱۸

در ۲ هیچ جواب ندارد

$$\frac{\sin \alpha}{\cos \alpha} = r \Rightarrow \tan \alpha = r \Rightarrow \cos \alpha = \frac{1}{1 + \tan^2 \alpha} = \frac{1}{a}$$

$$\cos \alpha < 0$$

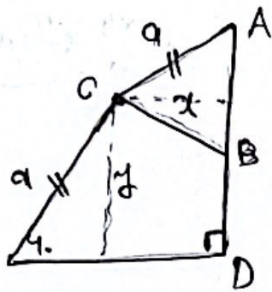
$$\Rightarrow \cos \alpha = -\frac{\sqrt{a}}{a}$$

سوال ۱۱۹

$$\frac{-rm}{m^2-1} = \tan 45^\circ = \sqrt{r} \Rightarrow \sqrt{r} m^2 + rm - \sqrt{r} = 0$$

سوال ۱۲۰

$$\hookrightarrow |m_1 - m_2| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{5+12}}{\sqrt{r}} = \frac{4}{\sqrt{r}}$$



$$\frac{1}{r} \sin \gamma_0 \times \Sigma \Delta \times a = \sqrt{12} \sqrt{r} \rightarrow a \leq 4$$

سوال ۱۲۱

$$\begin{cases} x = a \sin \gamma_0 = 4\sqrt{3} \\ y = a \sin \gamma_0 = 4\sqrt{3} \end{cases} \xrightarrow{\text{مساوی}} C_D = 4\sqrt{3} \sqrt{r} = 4\sqrt{4}$$

$$\text{مثال ۱: } \frac{\cos x}{1 + \sin x} = \frac{1 - \sin x}{\cos x}$$

$$\text{مثال ۲: } \frac{\cos x}{1 + \sin x} = \frac{1 + \sin x}{\cos x}$$

$$\Rightarrow \frac{1 - \sin x}{\cos x} = \frac{1 + \sin x}{\cos x}$$

$$\sin x \leq$$

$$x \leq k\pi$$

$$\sin x = \pi$$

$$\log_m n = a \Rightarrow \frac{\log n}{\log m} = a$$

$$b = \log_{mn} m^n = \frac{n \log m + \log n}{\log m + \log n} = \frac{n(a+1)}{a+1} = 1 + \frac{n}{a+1} = 4 \rightarrow [b] = 1$$

سوال ۶

در هر

$$\Rightarrow \text{مثال } \bar{x} \rightarrow 9494, 94 : \bar{x} = 94$$

سوال ۱۲۲

$$\hookrightarrow G^r = \frac{1 + 0.5 + 0.5}{2} = \frac{2}{2} = 1$$

$$C_{\min} = \frac{G}{\pi} = \frac{\frac{1\sqrt{2}}{\sqrt{2}}}{94} = \frac{\sqrt{2}}{\Sigma \Delta \sqrt{2}} = \frac{1}{1\sqrt{2}}$$

$$x' = 1 \Rightarrow a - a + b \leq 0 \rightarrow a - b \leq 0$$

$$f(x, y, z) = 1 \Rightarrow 1 + a + b \leq 0 \rightarrow a + b \leq -1 \Rightarrow \begin{cases} a \leq -1 \\ b \leq -1 \end{cases}$$

سوال ۱۲۳

$$\left[ \frac{b - 14}{14} \right] = \left[ \frac{-14 - 2}{14} \right] = -1$$



$$x=1 \quad \lim_{x \rightarrow 1} \frac{1}{x} : \tan \frac{\pi}{2} = \lim_{x \rightarrow 1} \frac{x^2+x-2}{x(1-x)} \Rightarrow \frac{-1}{0} = -1 \Rightarrow a=2$$

0124 d/ew

$$x=2 \quad \lim_{x \rightarrow 2} \frac{2x}{x(x-1)} = b(a-(-a)) \Rightarrow 10b = \frac{4}{1} \Rightarrow b = \frac{4}{10}$$

$$ab = \frac{-4}{10} = -0.4$$

$$a \cos \frac{\pi}{2} - \sin \frac{\pi}{2} = 0 \Rightarrow \frac{a}{2} = \frac{\sqrt{c}}{2} \Rightarrow a = \sqrt{c}$$

0124 d/ew

$$\boxed{2.00}$$

$$-2.00 > 0$$

$$\hookrightarrow \sqrt{2} \frac{\pi}{2} + b > 0 \Rightarrow b > \frac{-\pi}{\sqrt{2}} = -1.11$$

$$b \text{ per } \sqrt{2} \text{ } \frac{1}{2} = -1$$

$$f'(x) = \frac{1}{\sqrt{x}} + \frac{-2}{2\sqrt{a-2x}} = 0 \Rightarrow \sqrt{a-2x} = \sqrt{x}$$

0128 d/ew

$$f\left(\frac{a}{4}\right) = \sqrt{\frac{a}{4}} + \sqrt{\frac{2a}{4}} = \frac{3}{2}\sqrt{a}$$

$$a-2x \leq 2x \Rightarrow x \leq \frac{a}{4}$$

$$f(0) = \sqrt{a}$$

$$f\left(\frac{a}{2}\right) = \sqrt{\frac{a}{2}}$$

$$\frac{3}{2}\sqrt{a} \leq \sqrt{a} \Rightarrow a \leq 4$$

$$d: y = -\frac{1}{2}x + \frac{9}{2}$$

0129 d/ew

$$g(0) = \sqrt{x} \left( -\frac{x}{2} + \frac{9}{2} \right) = -\frac{x^{\frac{3}{2}}}{2} + \frac{9}{2}x^{\frac{1}{2}} \Rightarrow g'(0) = -\frac{1}{2}x^{\frac{1}{2}} + \frac{9}{2}x^{-\frac{1}{2}}$$

$$x=-1 \Rightarrow \frac{1}{2} + \frac{9}{2} = 5$$

سوال ۱۳۰

$$P(\text{مرد} = 10) = \frac{1}{n} \Rightarrow n = 10$$

$$P = \frac{10}{10} \times \frac{9}{10} \times \frac{8}{10} = \frac{12}{10}$$

سوال ۱۳۱

A : سبب اول

B : سبب دوم

$$\Rightarrow \begin{cases} P(A) = \frac{1}{2} \\ P(B) = \frac{1}{2} \\ P(B|A) = \frac{1}{2} \end{cases}$$

$$\Rightarrow P(A \cap B) = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$P(A \cup B) = \frac{1}{2} + \frac{1}{2} - \frac{1}{4} = \frac{3}{4}$$

سوال ۱۳۲

$$P = \frac{14}{20} \times \frac{2}{14} + \frac{10}{20} + \frac{4}{10} + \frac{12}{20} \times \frac{8}{12} = \frac{2+4+8}{20} = \frac{1}{2}$$

سوال ۱۳۳

$$\triangle ADE \sim \triangle ABC \Rightarrow \frac{AD}{AB} = \frac{AE}{AC}$$

$$\frac{1}{x+1} = \frac{x}{12} \Rightarrow x(x+1) = 12$$

$$\Rightarrow x = 3$$

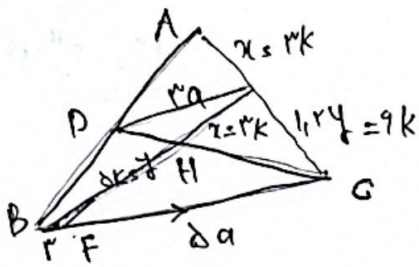
سوال ۱۳۴

$$\text{از } a = \frac{1}{a} \Rightarrow a^2 = 1$$

$$\begin{cases} a = 1 : y = x, y = x+1 \quad \checkmark \quad (1, 1) \\ a = -1 : y = -x+1, y = -x-1 \quad \times \end{cases}$$

$$\begin{cases} \omega = \frac{1}{\sqrt{r}} \\ \omega' = \frac{1}{\sqrt{r}} \end{cases}$$

$$\Rightarrow \omega = \sqrt{r} = \frac{1}{\sqrt{r}} \Rightarrow \frac{1}{\sqrt{r}} \times \frac{1}{\sqrt{r}} = 1$$



Qs ck  
J = dk

$$\sqrt{s} = \delta k$$

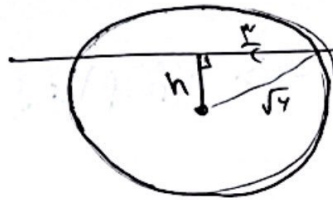
ଶିକ୍ଷକ ନାମ

$$\frac{r_a}{w + \Delta a} = \frac{r_k}{r_k} = 1$$

$$\Rightarrow a = \frac{w}{2} \times 0.1 \text{ V}$$

$$\Rightarrow BC, 4N \text{ } \circ$$

$$\begin{cases} 0(x, -1) \\ R \leq \sqrt{4} \end{cases}$$



$$h = \sqrt{y - \frac{a}{2}} = \frac{\sqrt{10}}{r}$$

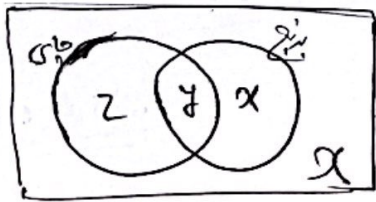
$$\frac{|-r+c-a|}{\sqrt{r^2+c^2}} \leq \frac{\sqrt{1+b^2}}{c} \Rightarrow |a| \leq \frac{2\sqrt{rc}}{c} \Rightarrow a \leq \pm \frac{2\sqrt{c}}{r}$$

$\text{diket} = 2\sqrt{c}$

$$a^{\frac{1}{V}} = r V a^{\frac{10}{V}} \Rightarrow r V a^r \leq 1 \Rightarrow \frac{1}{a} \leq r \sqrt{r}$$

३१३४ प्रश्न

$$\frac{r\sqrt{r}-r}{1+\sqrt{r}} \times \frac{\sqrt{r}-1}{\sqrt{r}-1} = \frac{r(\sqrt{r}-1)}{1} = \frac{r(\varepsilon - c\sqrt{c})}{c} = 4 - c\sqrt{c}$$



$$24 + 75 = 99$$

$$x_1 + y + z = 10 \dots 7$$

4253v.

25/2,

$x = 48$

$\Rightarrow y = 10 - 4x + 12d$

$$\Rightarrow Z \leq 100 - 100 = 0$$

$$+sd \left( \begin{matrix} Q_{\Sigma} = b_c \\ a_n = b_v \end{matrix} \right) \rightarrow \delta d'$$

$$+s_d \left( \begin{matrix} \cdot & \leq b_{10} \\ \cdot & \cdot \end{matrix} \right) + d d' \\ s_d = d_{1d}$$

00109 J/ent

$$\Lambda^{-\frac{c}{pm}} \times \Lambda^{-n} \times \Lambda^{-m} \times \Lambda^{-\frac{c}{pm}} \rangle \frac{1}{|\Lambda|}$$

o/ko Jaw

$$\Rightarrow c^{-m-cm} \times c^{-cm-cn} \rangle c^{-v} \Rightarrow c^{-cm-cn} \rangle c^{-1}$$

$$\Rightarrow -cm-cn \rangle -1 \Rightarrow m+cn < \infty \xrightarrow{\text{max}} m^w + n^c = c^c + 1^c \leq 9$$

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